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62,23

Better Chrysanthemums

for

1936



The matter of quality is of prime importance in any crop we grow. Second-grade stock is unprofitable these days, especially in Chrysanthemums. There are three phases to growing better mums. Good growing methods is an important one, so is starting with clean, vigorous stock. Of prime importance is the use of improved or the better kind. Cost of growing them is not greater than is that of inferior ones, and the difference in returns is frequently the profit.

We realize that the behavior of varieties varies in different sections, so does the preference for forms and colors. However, certain kinds are standard and good everywhere. In our notes on varieties in the last pages of this catalogue, we suggest some that we are certain will be found valuable. We are glad to be of further service along this line, and please bear in mind, that there is a saving on orders placed two months in advance of delivery.

Please submit to us a list of your mum requirements.

The last pages of this catalogue are used for a description of our method of black cloth shading for September flowering. Chances are it will interest you.

ORDER EARLY and avoid disappointment

Geo. J. Ball, Inc., West Chicago, Ill.

Terms and Rates

ORDER EARLY. While our stock is large, in most varieties, shortages do occur, especially late in the season. Order at once. Nothing gained by delay.

250 of any variety at the 1000 rate.

1000 (any number of varieties, not less than 25 of a kind) in a single order at the 1000 rate.

Below are listed the rates per hundred of our several classes, and opposite each rate is indicated the corresponding rate per ten:

Where the

price per 100 is: \$3.00 \$4.00 \$5.00 \$6.00 \$7.00 \$8.00 \$10.00 \$12.00 \$15.00 The price per 10 is: .50 .50 1.00 1.00 1.25 1.50 1.50 2.00 2.50

PLEASE NOTE we recommend ordering no less than 25 of a variety. Where fewer are ordered, charges will be made at the rate per ten.

Large — or Small Orders

Have you ever figured all the costs of producing mum cuttings—the all-winter cost of a light bench, the continual fight to keep them clean, cuttings lost in the sand when it gets hot, and sometimes loss in not having the stock when wanted? Some insecticide bills used in fighting midge through spring and summer would alone pay for a lot of good cuttings. The production of clean, dependable mum cuttings has become a specialized business for the reason that it doesn't pay most growers to bother with them. If interested in a large—or small—order, let us hear from you.

All our mum stock is propagated for us at Barberton, Ohio, from where it is shipped. It is guaranteed clean, free of disease, well rooted, carefully packed, and to reach you in good order.

Novelty Section

We are pleased to announce that we are disseminating introductions of Mr. V. R. De Petris, Detroit, Michigan, and The Bristol Nurseries, Inc., Bristol, Connecticut.

Descriptions of their 1936 introductions which appear on succeeding pages are furnished by the originators, but all of these varieties have been grown by us one or more years and have our unqualified approval.

In addition, we are offering a number of sports of merit, descriptions of which you will find in the novelty section.

De Petris' Introductions

BEUNETA

A large button pompon flowering in late November. It produces rigid, well flowered sprays of many bronze flowers tipped with gold.

It is desirable because it is different from any other variety which comes into bloom at this time. A sturdy grower and a good producer.

Price: \$15.00 per 100, \$125.00 per 1000.

TAGOYA

An outstanding single producing rigid, well formed sprays with flowers of excellent substance. Its color is a brilliant Goya-red overlaid with a rose sheen forming a brilliant and very attractive combination.

Its habit of growth is very sturdy but somewhat dwarf, making the variety suitable for pot plants. The variety is very productive and does not require disbudding.

Tagoya was awarded the Chrysanthemum Society of America Silver Medal for the best undisseminated single for 1935 and has been admired by all who have seen it.

Matures November 1st to 5th.

Price: \$15.00 per 100, \$125.00 per 1000.

ORCHID BEAUTY

An unusually attractive anemone with very rigid habit of growth and perfect spray formation requiring no disbudding.

The color is most unusual, being an intense orchid with a light golden cushion.

It matures about the middle of November and is distinct from any other anemone flowering at that time. Winner of the Chrysanthemum Society of America Silver Medal in 1935.

Price: \$15.00 per 100, \$125.00 per 1000.

TOM PEARSON

A late midseason spray pompon of unusually productive and sturdy habit of growth with rigid stems carrying well flowered sprays.

Its color is an intense deep gold, the full center forming an emerald gold cast producing a very attractive contrast. Flowers possess excellent substance as well as fullness.

Because of its color, substance and productiveness we predict this variety will be grown in great quantities despite its midseason-flowering habit.

Price: \$15.00 per 100, \$125.00 per 1000.

New Greenhouse Pompon Introductions

Bristol Nurseries, Inc.

GLOW

(Seedling 53-32.) We believe we have in this variety the finest "Quality" pompon yet introduced. It has a color that sells on sight. A glowing orange, with deep reddish orange shades at the center; vivid, yet without the harsh tones that are generally found in the orange varieties.

the center; vivid, yet without the harsh tones that are generally found in the orange varieties.

The individual flower is about 2 inches across, of perfect rounded form, carried several to a spray and so well placed that each flower appears to advantage. Growth wiry and erect, beautiful to look at on the bench. Production good for a fancy pompon, keeping qualities excellent. Ready to cut Thanksgiving, it can be grown cool for mid-December cutting. Spaced 7 inches by 7 inches it is a money-maker. Height 31/2 to 4 feet. Awarded C. S. A. Silver Medal—Highest award for Seedling Pompon at Detroit 1935. Also Silver Medal Special Class for most distinct and meritorious novelty selected from seedling classes at Detroit 1935.

Price: \$15.00 per 100, \$125.00 per 1000.

New Greenhouse Pompon Introductions (Continued)

BUTTERCUP

(Seedling III-33ck.) Not just another yellow. It will prove, we believe, the best yellow yet introduced for late December cutting. The flowers are large, 2½ to 3 inches across, of good form and produced in branching sprays. Color, pure buttercup-yellow. Growth, strong and healthy; about 4 feet under average culture. Having the fine keeping qualities which characterize November Bronze and The Bristolite, our previous introductions, it will prove a popular and highly profitable market variety. It ships well, grows and propagates freely and should be planted 8 inches by 8 inches for best production. Matures December 5th.

Price: \$15.00 per 100, \$125.00 per 1000.

FEZ

(Seedling 20-26.) A distinct variety, the outstanding feature of which is perfection in form and color. The flowers are small, about $1\frac{1}{2}$ inches across, and the essence of neatness in form and arrangement. The color a fine chestnut-crimson that commands attention on the market. Growth upright and sturdy, producing well branched sprays. This variety has been grown for several seasons by growers who handle some of our seedlings under a royalty basis. It keeps splendidly and will prove profitable if you have an outlet that appreciates quality. Height $3\frac{1}{2}$ to 4 feet. Season November 10th.

Price: \$10.00 per 100, \$90.00 per 1000.

Introductions from Various Growers

YELLOW BLANCHE (Ziechmann Floral Co.)

A yellow sport from variety Blanche and like it in every respect excepting color. It has been grown commercially for several years and has met with the approval of the trade.

Price: \$12.00 per 100, \$100.00 per 1000.

YELLOW AMBASSADOR

This yellow sport from Ambassador has been found in a number of places and is offered to the trade this year for the first time. The worth of its parent is well known, which should assure a good reception in the trade.

Price: \$12.00 per 100, \$100.00 per 1000.

RED ROLINDA

The color is red—identical with The Titan. In other respects it is like Rolinda from which this variety sported. The merits of variety Rolinda are well known and this break in color should make a decided contribution.

Price: \$12.00 per 100, \$100.00 per 1000.

YELLOW ROLINDA

A sport from Rolinda and like it in every respect excepting color, which is a deep golden yellow either disbudded or in sprays.

Price: \$12.00 per 100, \$100.00 per 1000.

Odd Formed - Feathery and Thread-Like Varieties

				P.	rice
Name and Description	Height	Select Bud	Matures	Per 100	Per 1000
Patricia Grace. Shell-pink	Medium		Nov. 10	\$10.00	\$90.00
Peggy Ann Hoover. Lavender				10.00	90.00
Pride of Tokyo. Creamy pink. A nov-					
elty with odd tubular petals	Tall	Aug. 25	Nov. 10	10.00	90.00
Rayonnante. Pale rose-pink				10.00	90.00

Large Flowering Commercial Varieties

NOTE:

Where variety Gladys Pearson is ordered, original stock will be shipped. When Dark Bronze Gladys Pearson is wanted, variety Oak Leaf will be shipped. In this catalogue are several duplications of names as follows:

DIANA—A white pompon.
DIANA—A hardy Korean variety.

INNOCENCE—A hardy variety listed under Korean varieties.
SMITH'S INNOCENCE—A white anemone-flowered variety listed under anemones.

YELLOW DOT—A small yellow pompon variety.
YELLOW DOT (Jablonsky)—A yellow sport of Pink Dot.

GRENADIER—A red pompon variety.

GRENADIER (Hardy)—A hardy variety listed among the hardies.

When ordering any of these varieties, please specify clearly which is intended.

Price

				Pr	ice
Name and Description	Height	Select Bud	Matures	Per 100	Per 1000
Ambassador. White. Largest early					
Chrysanthemum		Terminal Bud	Oct. 16-20	\$3.00	\$25.00
Antique. Mahogany-bronze. Sport of					
Dr. Enguehard		Sept. 5	Thanksgiving	3.00	25.00
Andrew Schmidt. Pink. Dark sport of		·	Thanksgiving a	nd	
Seidewitz		Sept. 5	Later	3.00	25.00
Apricot Queen. Orange		Sept. 5	Oct. 25	10.00	90.00
Betsy Ross. White		Aug. 25	Nov. 5	3.00	25.00
Camilla. White		Aug. 25	Oct. 18	3.00	25.00
Cardonia. Deep, rich yellow	Medium	Terminal Bud	Nov. 1-7	3.00	25.00
Celestra. Yellow		Terminal Bud	Oct. 10	3.00	25.00
Chadwick, Bronze. Bronze.		Terminal Bud	Thanksgiving	4.00	35.00
Chadwick, Golden. Yellow	Medium	Terminal Bud	Thanksgiving	4.00	35.00
Chadwick, Pink. Pink	Medium	Terminal Bud	Thanksgiving	4.00	35.00
Chadwick, White. White	Medium	Terminal Bud	Thanksgiving	4.00	35.00
Chas. Rager. White		Sept. 15	Nov. 10	3.00	25.00
Chas. W. Johnson. White		Sept. 10	Oct. 25	3.00	25.00
Chattanooga. White	Medium	Sept. 20	Nov. 28 \	3.00	25.00
Chieftain. Pink		*Aug. 31	Nov. I	3.00	25.00
Christina. White. Sport of Rose Cho-					
chard	Short	Aug. 15	Oct. 20	3.00	25.00
Chrysolora. Yellow	Medium	Aug. 15	Oct. 15	3.00	25.00
Citronella. Yellow. Excellent shipper.		Aug. 31	Oct. 25	3.00	25.00
Clara B. Ford. Yellow	Medium	Sept. 2 0	Nov. 20	3.00	25.00
Coahoma. Yellow	Medium	Terminal Bud	Late Oct.	3.00	25.00
Columbus Dispatch. Yellow. Large					
bloom	Medium	Sept. I	Nov. 15	3.00	25.00
Corona. Deep yellow	Tall	Terminal Bud	Oct. 25	3.00	25.00
December Beauty. White, tinged with					
pink	Medium	Oct. 1-10	Dec. I	3.00	25.00
December Glory. White		Sept. 30	Dec. I	3.00	25.00
Detroit News. Bronze		Aug. 30	Oct. 25	3.00	25.00
Distinction. Pink		Terminal Bud	Thanksgiving	3.00	25.00

[&]quot;Enclose Your Mum With Your Seed Order"

Large Flowering Commercial Varieties (Continued)

				Pri	ce
Name and Description	Height	Select Bud	Matures	Per 100	Per 1000
Dr. Enguehard. Rose-pink	Medium	Sept. 5	Thanksgiving	3.00	25. 0 0
Dorianda. Bronze		Aug. 25	Oct. 25	3.00	25.00
Early Frost. White		Early	Early	3.00	25.00
Edgar Stillman Kelly. White		Sept. 15	Nov. 15	3.00	25.00
Edwin Seidewitz. Bright pink		Sept. 5	Thanksgiving	3.00	25.00
Evening Glow. Yellow		Sept. 10	Oct. 25	10.00	90.00
Evening Star. Pink	Tall	Sept. 5	Nov. I	5.00	40. 0 0
Favorite. White	Tall	Sept. 5	Nov. 15	3.00	25.00
Floyd Gibbons. Salmon-pink with buff					
reverse	Short	Sept. 15	Nov. 8	3.00	25. 0 0
Friendly Rival. Golden yellow	Medium	Sept. 10	Thanksgiving	3.00	25 .0 0
Garnet King. Red	Short	Sept. 20	Nov. 20-30	3.00	25.0 0
Gladys Pearson. Bronze	Medium	Sept. 30	Nov. 20-30	3.00	25.00
Glenview. Bronze	Short	Sept. 10	Nov. 24	3.00	25.0 0
Glitters. Bronze	Medium	Terminal Bud	Nov. I	3.00	25.00
Gold Lode. Yellow	Medium	Aug. 25	Oct. I	3.00	25.00
Golden Bronze. Golden yellow with					
tints of bronze		Terminal Bud	Oct. 25	3.00	25.00
Golden Celebration. Yellow		Sept. 15	Nov. 20	3.00	25.00
Golden Glory. Yellow		Aug. 25	Nov. I	3.00	25.0 0
Golden Glow, Imp. Yellow	Medium	July 10	Sept. I	3.00	25.00
Golden Mrs. Ross. Golden yellow.					
Sport of Nellie T. Ross		Early Oct.	Nov. 28	3.00	25.00
Golden October. Rich golden yellow.	Medium	Terminal Bud	Oct. 10	3.00	25.0 0
Golden Pearson. Yellow. Sport of					
Gladys Pearson		Sept. 3 0	Thanksgiving	3.00	25.00
Golden Queen. Yellow	Medium	Aug. 10	Oct. 25	3.00	25.00
Golden Seidewitz. Yellowish bronze.	T II	6	TI 1	2.00	05.00
* Sport of Edwin Seidewitz		Sept. 5	Thanksgiving	3.00	25.00
Golden Tints. Bright yellow		Aug. 5-25	Oct. 10	5.00	40.00
Golden Topaz. Golden yellow		Sept. 10	Nov. 10	3.00	25.00
Golden Wave. Yellow	Short	Sept. 5	Oct. 20	3.00	25.00
Good News. Yellow. Sport of Detroit	NA 11	A . 20	0 1 25	7.00	65.00
News	Mealum	Aug. 30	Oct. 25	7.00	05.00
gold reverse	Chart	Aug. 15	Oct. 15	3.00	25.00
Grandes Pink. Pink	211011	Aug. 15	Oct. 15	6.00	50.00
Harvard. Crimson	Modium	Sept. 30	Nov. 30	3.00	25.00
Helen Frick. Dark pink		Sept. 10	Thanksgiving	3.00	25.00
Hilda Bergen. Bronze		Sept. 10	Oct. 25	3.00	25.00
Honeydew. Yellow		Terminal Bud	Nov. 15	3.00	25.00
Immaculate. White		Terminal Bud	Nov. 1-7	3.00	25.00
Imagene. Orange with golden reverse.		Aug. 15	Oct. 25	3.00	25.00
Indianola. Light bronze		Aug. 25	Oct. 8	3.00	25.00
Josephine Lawler. Pink		Terminal Bud	Oct. 20	3.00	25.00
Justrite. Pink		Terminal Bud	Oct. 15	3.00	25.00
J. W. Prince. Pink. Dark sport of		Torring bug			20.00
Chieftain		Aug. 30	Nov. I	3.00	25.00
Keystone. Bronze		Aug. 30	Oct. 22	3.00	25.00
,	Garage				

[&]quot;Enclose Your Mum With Your Seed Order"

Large Flowering Commercial Varieties (Continued)

Name and Description					Pric	
Lustre. Pink	Name and Description	Height	Select Bud	Matures		
Major Bonnaffon, Yellow	·		Δ 25	Oct 0		
Marie De Petris. Yellow			-			
Mefe. White Medium Sept. 15 Nov. 20 3.00 25.00 Mistletoe, Bronze. Bronze Medium Sept. 30 December 3.00 25.00 Mistletoe, Pink. Pink. Medium Sept. 30 December 3.00 25.00 Mistletoe, Pink. Pink. Medium Sept. 30 December 3.00 25.00 Mohawk Chief, Crimson Medium Sept. 30 December 3.00 25.00 Mohawk Chief, Crimson Medium Sept. 10 Nov. 30 3.00 25.00 Mrs. Alex Laurie. Light pink. Medium Terminal Bud Nov. 15 3.00 25.00 Mrs. Franklin D. Roosevelt. Bright vellow. Medium Sept. 15 Nov. 15 3.00 25.00 Mrs. Helk. Kidder. Bright yellow. Medium Aug. 25 Oct. 25 3.00 25.00 Mrs. Henry R. Rea. White. Medium Aug. 20 Oct. 25 3.00 25.00 Mrs. Henry Robinson. White. Medium Sept. 1 Oct. 25 3.00 25.00 Mrs. Henry Ro	•		•			
Mistletoe, Bronze Medium Sopt. 30 December 3.00 25.00 Mistletoe, Golden. Yellow Medium Medium Sopt. 30 December 3.00 25.00 Mistletoe, White, Imp. White Medium Medium Medium Sopt. 30 December 3.00 25.00 Mistletoe, White, Imp. White Medium Mediu			•			
Mistletoe, Golden. Yellow Medium Medium Medium Sept. 30 December 3.00 25.00 Mistletoe, Pink. Pink. Medium Medium Sept. 30 December 3.00 25.00 Mistletoe, Pink. Pink. Medium Medium Sept. 30 December 3.00 25.00 Monument. White Medium Medium Medium Ners. A. J. Stahelin. Bronze with reverse petals yellow. Medium Medium Medium Nov. 5:15 3.00 25.00 Mrs. A. J. Stahelin. Bronze with reverse petals yellow. Medium Medium Medium Nrs. Devide F. Roy. Crimson. Medium Sept. 20 Nov. 15 3.00 25.00 Mrs. Alex Laurie. Light pink. Medium Medium Mrs. Devide F. Roy. Crimson. Short Sept. 10 Nov. 15 3.00 25.00 Mrs. Franklin D. Roosevelt. Bright yellow. Medium Mrs. Henry R. Rea. White. Medium Maug. 25 Nov. 15 3.00 25.00 Mrs. Henry R. Rea. White. Medium Mrs. Henry Robinson. W	· ·		•			
Mistletoe, Pink. Pink. Imp. White Medium Mohawk Chiefe, Crimson Sept. 30 December 3.00 25.00 Moshawk Chiefe, Crimson Medium Mohawk Chiefe, Crimson Nov. 30 3.00 25.00 Mrs. A. J. Stahelin. Bronze with reverse petals yellow. Medium Modium Terminal Bud Nov. 15 3.00 25.00 Mrs. Alex Laurie. Light pink. Medium Modium Sept. 20 Nov. 15 3.00 25.00 Mrs. Pavid F. Roy. Crimson. Short Sept. 15 Nov. 15 3.00 25.00 Mrs. Franklin D. Roosevelt. Bright yellow. Tall Sept. 5-10 Nov. 15 3.00 25.00 Mrs. Helen K. Johnson. Dark yellow. Tall Aug. 20 Oct. 25 3.00 25.00 Mrs. Henry R. Rea. White. Medium Medium Sept. 10 Nov. 15 6.00 50.00 Mrs. Henry Robinson. White. Medium Medium Nov. 1 3.00 25.00 Mrs. Henry Robinson. White. Medium M			•			
Mistletoe, White, Imp. White Medium Medium Medium Monument, White Medium Medium	•		•			
Mohawk Chief. Crimson			•			
Monument. White Medium or serverse petals yellow Medium or serverse petals yellow Medium or serverse petals yellow Medium or sept. 20 Nov. 15 3.00 25.00 Mrs. Alex Laurie. Light pink Medium or sept. 20 Nov. 15 3.00 25.00 Mrs. David F. Roy. Crimson Short Sept. 15 Nov. 15 3.00 25.00 Mrs. Franklin D. Roosevelt. Bright yellow Tall Sept. 10 Nov. 15 3.00 25.00 Mrs. He. K. Kidder. Bright yellow Medium Medium Aug. 20 Oct. 25 3.00 25.00 Mrs. Henry R. Rea. White Medium Medium Sept. 1 Oct. 25 3.00 25.00 Mrs. Henry Robinson. White Medium Early Nov. 1 3.00 25.00 Mrs. Henry Robinson. White Medium Early Nov. 1 3.00 25.00 Mrs. Henry Robinson. White Medium Early Nov. 1 3.00 25.00 Mrs. Henry Robinson. White Medium Sept. 1 Oct. 25 3.00 25.00	•		•			
Mrs. A. J. Stahelin. Bronze with reverse petals yellow						
Verse petals yellow		Medium	Sept. 10	1107. 5-15	3.00	25.00
Mrs. Alex Laurie. Light pink. Medium of Mrs. David F. Roy, Crimson. Short Sept. 15 Nov. 15 3.00 25.00 Mrs. Franklin D. Roosevelt. Bright yellow. Tall Sept. 15 Nov. 15 3.00 25.00 Mrs. H. E. Kidder. Bright yellow. Medium Mrs. Henry R. Rea. White. Medium Medium Mrs. Henry R. Rea. White. Medium Medium Mrs. Henry R. Rea. White. Medium Medium Medium Mrs. Henry Robinson. White. Medium Medium Medium Mrs. Henry Robinson. White. Medium Medium Medium Medium Mrs. Henry Robinson. White. Medium Medium Medium Medium Medium Mrs. Henry Robinson. White. Medium Medi		Ma altum	T!1 Pl	Na. IE	2.00	25.00
Mrs. David F. Roy. Crimson Short Sept. 15 Nov. 15 3.00 25.00 Mrs. Franklin D. Roosevelt. Bright yellow Tall Sept. 5-10 Nov. 15 6.00 50.00 Mrs. H. E. Kidder. Bright yellow Medium Aug. 25 Oct. 25 3.00 25.00 Mrs. Helen K. Johnson. Dark yellow Tall Aug. 20 Oct. 25 3.00 25.00 Mrs. Henry Robinson. White Medium Sept. 1 Oct. 25 10.00 90.00 Mrs. Wen. Thaw, Jr. Yellow Tall Early Nov. 1 3.00 25.00 McNeice. Pink Short Tall Early Oct. Nov. 30 3.00 25.00 Melile T. Ross. Light yellow Tall Early Oct. Nov. 30 3.00 25.00 Oak Leaf. Dark bronze Medium Sept. 30 Nov. 20-30 3.00 25.00 October Rose. Pink Medium Aug. 25 Oct. 15 3.00 25.00 Okeda. Reddish bronze Tall Medium Terminal Bud Oct. 10 3.00 25.00	· · · · · · · · · · · · · · · · · · ·					
Mrs. Franklin D. Roosevelt. Bright yellow			•			
Yellow	· · · · · · · · · · · · · · · · · · ·	Snort	Sept. 15	1/OV. 15	3.00	25.00
Mrs. H. E. Kidder. Bright yellow Medium Aug. 25 Oct. 25 3.00 25.00 Mrs. Henry R. Rea. White Medium Medium Mrs. Henry Robinson. White Medium Early Nov. 1 3.00 25.00 Mrs. Wm. Thaw, Jr. Yellow Tall Terminal Bud Nov. 10 6.00 50.00 McNeice. Pink Short Terminal Bud Oct. 25 3.00 25.00 Melie T. Ross. Light yellow Tall Early Oct. Nov. 30 3.00 25.00 Oak Leaf. Dark bronze. Medium Medium Maug. 25 Oct. 15 3.00 25.00 October Rose. Pink Medium Medium Medium Maug. 25 Oct. 15 3.00 25.00 October Rose. Pink Medium Medium Medium Maug. 25 Oct. 18 3.00 25.00 Okeda. Reddish bronze. Tall Aug. I-10 Oct. 1-10 3.00 25.00 Okeda. Reddish bronze. Medium Medium Medium Medium More Medium Pink Sept. 1 Oct. 30 3.00 25.00 Pink Chief. Pink. Very good early pink Tall Sept. 1 Oct. 30 3.00 25.00 Pink Globe. Pinkish lavender Medium	2	T. II	C L E 10	NI. IF	/ 00	F0 00
Mrs. Helen K. Johnson. Derk yellow Tall Aug. 20 Oct. 28 5.00 40.00 Mrs. Henry R. Rea. White Medium Sept. I Oct. 25 10.00 90.00 Mrs. Henry Robinson. White Medium Medium Early Nov. I 3.00 25.00 Mrs. Wm. Thaw, Jr. Yellow Tall Tall Terminal Bud Oct. 25 3.00 25.00 McNeice. Pink Short Terminal Bud Oct. 25 3.00 25.00 Nellie T. Ross. Light yellow Tall Early Oct. Nov. 30 3.00 25.00 Oak Leaf. Dark bronze. Medium Sept. 30 Nov. 20-30 3.00 25.00 October Rose. Pink Medium Aug. 1-10 Oct. 15 3.00 25.00 Okeda. Reddish bronze Tall Aug. 1-10 Oct. 10 3.00 25.00 Old Rose. Pleasing shade of old rose Medium Sept. 1 Oct. 30 3.00 25.00 Old Rose. Pleasing shade of old rose Medium Sept. 1 Oct. 30 3.00 25.00 Pink C	·		•			
Mrs. Henry R. Rea. White Medium Medium Sept. I Oct. 25 10.00 90.00 Mrs. Henry Robinson. White Medium Medium Early Nov. I 3.00 25.00 Mrs. Wm. Thaw, Jr. Yellow Tall Terminal Bud Nov. 10 6.00 50.00 McNeice. Pink Short Terminal Bud Oct. 25 3.00 25.00 Oak Leaf. Dark bronze Medium Sept. 30 Nov. 30 3.00 25.00 October Rose. Pink Medium Sept. 30 Nov. 20-30 3.00 25.00 Okeda. Reddish bronze Medium Terminal Bud Oct. 18 3.00 25.00 Okeda. Reddish bronze Tall Medium Terminal Bud Early Nov. 3.00 25.00 Okeda. Reddish bronze Tall Medium Terminal Bud Oct. 18 3.00 25.00 Okeda. Reddish bronze Tall Medium Terminal Bud Oct. 19 3.00 25.00 Okeda. Reddish bronze Tall Terminal Bud Oct. 10			_			
Mrs. Henry Robinson. White	•		2			
Mrs. Wm. Thaw, Jr. Yellow	•		•			
McNeice Pink Short Terminal Bud Oct. 25 3.00 25.00	•		•			
Nellie T. Ross. Light yellow						
Oak Leaf. Dark bronze Medium Sept. 30 Nov. 20-30 3.00 25.00 Oconto. White Medium Aug. 25 Oct. 15 3.00 25.00 October Rose. Pink Medium Terminal Bud Oct. 18 3.00 25.00 Okeda. Reddish bronze Tall Aug. 1-10 Oct. 1-10 3.00 25.00 Old Rose. Pleasing shade of old rose Medium Tall Early Nov. 3.00 25.00 Oscoda. Light lavender with silvery sheen Medium Sept. 1 Oct. 30 3.00 25.00 Pink Chief. Pink. Very good early pink Medium Sept. 1 Oct. 30 3.00 25.00 Pink Delight. Rose-pink. A good pink for the season Tall Terminal Bud Oct. 12 3.00 25.00 Pink Globe. Pinkish lavender Medium Sept. 20 Nov. 1 3.00 25.00 Pink Treasure. Pink Short Sept. 20 Nov. 10 3.00 25.00 Pink Treasure. Pink Medium Aug. 25 Oct. 5 3.00 25.00						
Oconto. White Medium Aug. 25 Oct. 15 3.00 25.00 October Rose. Pink Medium Terminal Bud Oct. 18 3.00 25.00 Okeda. Reddish bronze Tall Aug. 1-10 Oct. 1-10 3.00 25.00 Old Rose. Pleasing shade of old rose Medium Terminal Bud Early Nov. 3.00 25.00 Oscoda. Light lavender with silvery sheen Medium Sept. 1 Oct. 30 3.00 25.00 Pink Chief. Pink. Very good early pink Tall Terminal Bud Oct. 12 3.00 25.00 Pink Delight. Rose-pink. A good pink for the season Tall Terminal Bud Oct. 12 3.00 25.00 Pink Globe. Pinkish lavender Medium Sept. 10 Nov. 1 3.00 25.00 Pink Treasure. Pink Short Sept. 20 Nov. 10 3.00 25.00 Pink Treasure. Pink Medium Aug. 25 Oct. 20 3.00	_ •		•			
October Rose. Pink. Medium Terminal Bud Oct. 18 3.00 25.00 Okeda. Reddish bronze. Tall Aug. 1-10 Oct. 1-10 3.00 25.00 Old Rose. Pleasing shade of old rose. Medium Terminal Bud Early Nov. 3.00 25.00 Oscoda. Light lavender with silvery sheen Medium Sept. 1 Oct. 30 3.00 25.00 Pink Chief. Pink. Very good early pink Tall Terminal Bud Oct. 12 3.00 25.00 Pink Delight. Rose-pink. A good pink for the season. Tall Sept. 10 Nov. 1 3.00 25.00 Pink Globe. Pinkish lavender. Medium Sept. 20 Nov. 10 3.00 25.00 Pink Treasure. Pink. Short Sept. 20 Nov. 10 3.00 25.00 Quaker Maid. White. Medium Aug. 25 Oct. 5 3.00 25.00 Reality. Pink. Medium Aug. 5 Nov. 1 3.00 25.00 Reality. Pink. Medium Aug. 5 Nov. 1 3.00 25.00		•	•			
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Pink Delight. Rose-pink. A good pink for the season		- 11	~~			
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Pink Globe. Pinkish lavender. Medium Sept. 20 Nov. 10 3.00 25.00 Pink Treasure. Pink. Short Sept. 20 Nov. 10 3.00 25.00 Quaker Maid. White. Medium Aug. 25 Oct. 5 3.00 25.00 Reality. Pink. Medium Aug. 5 Oct. 20 3.00 25.00 Richmond. Yellow. Medium Aug. 25 Nov. 1 3.00 25.00 R. M. Calkins. Golden yellow. Medium Sept. 20 Nov. 25-30 3.00 25.00 Rosa Raisa. Pink. Short Sept. 20 Thanksgiving 3.00 25.00 Rose Chochard. Pink. Short Aug. 15 Oct. 20 3.00 25.00 Rose Glory. Pink. Medium Terminal Bud Oct. 15-20 3.00 25.00 Rose Marie. Pink. Tall Aug. 5 Oct. 1 3.00 25.00 Rose Perfection. Pink. Short Sept. 10 Nov. 15-20 5.00 40.00 Secretary Nehrling. Bright yellow. Medi		~ 11				
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Richmond. Yellow	·		_			
R. M. Calkins. Golden yellow			_			
Rosa Raisa. Pink			-			
Rose Chochard. Pink Short Aug. 15 Oct. 20 3.00 25.00 Rose Glory. Pink Medium Terminal Bud Oct. 15-20 3.00 25.00 Rose Marie. Pink Tall Aug. 5 Oct. I 3.00 25.00 Rose Perfection. Pink Short Sept. I0 Nov. 5-10 3.00 25.00 Secretary Nehrling. Bright yellow Medium Aug. 15-20 Nov. 15-20 5.00 40.00 Silver Dawn. White Tall Aug. 25 Oct. 18-20 3.00 25.00 Silver Sheen. White Medium Aug. 30 Oct. 20 3.00 25.00						
Rose Glory. Pink	· ·		·			
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Rose Perfection. Pink Short Sept. 10 Nov. 5-10 3.00 25.00 Secretary Nehrling. Bright yellow Medium Aug. 15-20 Nov. 15-20 5.00 40.00 Silver Dawn. White Tall Aug. 25 Oct. 18-20 3.00 25.00 Silver Sheen. White Medium Aug. 30 Oct. 20 3.00 25.00						
Secretary Nehrling. Bright yellow Medium Aug. 15-20 Nov. 15-20 5.00 40.00 Silver Dawn. White			_			
Silver Dawn. White			•			
Silver Sheen. White			_			
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Smith's Early White. White Iall Aug. 10 Oct. 2 3.00 25.00						
	Smith's Early White. White	Iall	Aug. 10	Oct. 2	3.00	25.00

[&]quot;Enclose Your Mum With Your Seed Order"

Large Flowering Commercial Varieties (Continued)

				Pri	ce
Name and Description	Height	Select Bud	Matures	Per 100 1	Per 1000
Smith's Late White. White	Short	Sept. 30	Dec. 15	3.00	25.00
Smith's Peerless. White	Medium	Sept. 15	Thanksgiving	3.00	25.00
Smith's Superlative. Bright yellow	Medium	Aug. 25	Oct. 25	3.00	25.00
Snow White. White	Medium	Terminal Bud	Nov. I	3.00	25.00
Stately White. White	Medium	Terminal Bud	Nov. I	6.00	50.00
Sunbeam. Bright yellow	Medium	Sept. 20	Thanksgiving	3.00	25.00
Sun Glow. Yellow	Medium	Aug. 15	Oct. 25	3.00	25.00
Sungold. Yellow	Medium	Sept. 30	Thanksgiving	3.00	25.00
Tekonsha. Bronze		Sept. 10	Thanksgiving	3.00	25.00
Thanksgiving Pink. Dark pink	Short	Sept. 15	Thanksgiving	3.00	25.00
Timothy Eaton. White	Tall	Sept. 15	Nov. 20	3.00	25.00
Tints of Gold. Bronze	Medium	Aug. 15	Oct. 10	3.00	25.00
Tom Browne. White	Medium	Terminal Bud	Nov. 20-30	3.00	25.00
White Chief. White. Good commer-					
cial		Terminal Bud	Oct. 18	3.00	25.00
White Chieftain. White		Aug. 31	Nov. I	3.00	25.00
White Distinction. White	Medium	Terminal Bud	Thanksgiving	3.00	25.00
White Seidewitz. White. Sport of					
Edwin Seidewitz		Sept. 5	Thanksgiving	3.00	25.00
William Didden. Yellow. Sport of					
Indianola		~	Oct. 8	3.00	25.0 0
Whittier. Yellow		Sept. 15	Nov. 15	3.00	25.00
Yellow Chattanooga. Light yellow		Sept. 20	Nov. 28	3.00	25.00
Yellow December Glory. Light yellow		Sept. 30	Dec. I	10.00	90.00
Yellow Frost. Yellow			Early	3.00	25.00
Yellow Gold. Bright golden yellow		Terminal Bud	Nov. 1-15	3.00	25.00
Yellow Mefo. Yellow. Sport of Mefo		Sept. 15	Nov. 20	3.00	25.00
Yellow Monument. Yellow. Sport of					
Monument	Medium	Sept. 10	Nov. 5-15	3.00	25.00

Exhibition Varieties

				Pr	ice
Name and Description	Height	Select Bud	Matures	Per 100	Per 1000
Alice Benson. Early white	Medium	Aug. 20	Nov. I	\$8.00	\$75.00
Carrie Beinecke. Golden bronze	Medium	Aug. 20	Oct. 25-Nov. 1	8.00	75.00
Dr. J. M. Inglis. Wine-purple-ama-					
ranth with silver reverse	Tall	Aug. 25	Nov. I	8.00	75.00
Earl Kitchener. Bronze	Medium	Aug. 20	Nov. 10	8.00	75.00
Elberon. Pink	Medium	Aug. 30	Nov. I	8.00	75.00
Francine. Rose with pinkish buff re-					
verse	Medium	Aug. 15	Nov. 15	8.00	75.00
General Pershing. Pink	Medium	Aug. 20	Nov. I	8.00	75.00
Golden Majestic. Bright yellow	Medium	Aug. 20	Oct. 25-Nov. I	8.00	75.00
Grace Sturgis. Wine-red with pinkish					
silver reverse	Tall	Aug. 25	Oct. 20	6.00	50.00
John S. Bush. White	Medium	Aug. 15	Oct. 15	8.00	75.00
J. R. Booth. Yellow	Medium	Aug. 15	Nov. I	8.00	75.00

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Exhibition Varieties (Continued)

				Pr	ice
Name and Description	Height	Select Bud	Matures	Per 100	Per 1000
La France. Purple		Aug. 15	Oct. 28	6.00	50.00
Louisa Pockett. White	Medium	Aug. 10	Nov. 1-15	8.00	75.00
Majestic. Clear, shiny amber-bronze	Medium	Aug. 20	Oct. 25	8.00	75.00
Marian H. Uffinger. Bronzy crimson					
with a gold reverse	Medium	Aug. 20-25	Nov. I	8.00	75.00
Miss Millicent Rogers. Bronzy pink	Medium	Aug. 25	Oct. 20	8.00	75.00
Miss Rita Mitchell. Salmon-bronze					
with fawn reverse	Medium	Aug. 25	Nov. 5	8.00	75.00
Mrs. B. D. Spillman. Apricot-orange		Aug. 20	Nov. I	8.00	75.00
Mrs. G. G. Mason. Blood-red with					
golden reverse		Aug. 20	Oct. 25-Nov. 1	8.00	75.00
Mrs. H. S. Firestone. Chamois-buff		Aug. 25	Nov. I	8.00	75.00
Mrs. Jules Leeds. Blood-red		Aug. 25	Nov. 10	8.00	75.00
Mrs. Kershaw. Bronze		Aug. 15	Nov. I	8.00	75.00
Mrs. Woodrow Wilson. White		Aug. 15	Oct. 15	8.00	75.00
Nagirroc. Golden bronze		Aug. 15	Nov. I	8.00	75.00
Nellie Mitchell. Yellow suffused with					
bronze		Aug. 25	Nov. I	8.00	75.00
Niagara. White		Aug. 15	Nov. 5	8.00	75.00
Nerissa. Rosy lavender	Medium	Sept. 5	Nov. 5	8.00	75.00
Pockett's Crimson. Crimson with gold-					
en reverse		Aug. 25	Oct. 25	8.00	75.00
Princess Teru. Pink		Aug. 25	Nov. I	8.00	75.00
Red Majestic. Bronzy red		Aug. 25	Nov. I	8.00	75.00
Rosanda. Old rose		Sept. 10	Nov. I	8.00	75.00
Thos. W. Pockett. Pink		Aug. 10	Nov. 1-15	8.00	75.00
Turner, Bronze. Light bronze		Aug. 25	Nov. 5	6.00	50.00
Turner, Pink (Mrs. Leslie Davis.)		Aug. 25	Nov. 5	6.00	50.00
Turner, William. White		Aug. 25	Nov. 5	6.00	50.00
Turner, Yellow. Yellow		Aug. 25	Nov. 5	6.00	50.00
Vermont. Pink		Aug. 10	Nov. I-15	8.00	75.00
Well's Late Buff. Pinkish creamy buff		Sept. 10	Nov. 5	8.00	75.00
W. H. Waite. Bronze		Aug. 15	Nov. 5	6.00	50.00
W. H. Waite, Imp. Red		Aug. 15	Nov. 5	6.00	50.00
William Hazelhurst. Pink		Aug. 25	Oct. 29	8.00	75.00
Yellow Pockett. Yellow	Medium	Aug. 10	Nov. I-15	8.00	75.00

Pompons — Large Flowering and Button Types

•				Pri	ce
Name and Description	Height	Туре	Matures	Per 100	Per 1000
*Acto. Rose-pink	Medium	L. Pompon	Nov. I	\$3.00	\$25.00
Adelphia. White	Short	L. Pompon	Oct. 15	3.00	25.00
Adironda. Golden bronze	Medium	L. Pompon	Oct. 15	3.00	25.00
*Good dishudded					

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				Pr	ice
Name and Description	Height	Туре	Matures	Per 100	Per 1000
Alecia. Bronze	Medium	L. Pompon	Oct. 30	3.00	25.00
†Alice. Pink	Medium	L. Pompon	Nov. 15	3.00	25.00
*Angelo. Light pink	Short	L. Pompon	Oct. 25	3.00	25.00
Ardith. Light pink changing to white	Medium	L. Pompon	Nov. 15	3.00	25.00
Arlyn. Bronzy yellow		L. Pompon	Nov. 15	3.00	25.00
Autumn Glints. Yellow with crimson					
center	Medium	L. Pompon	Nov. I	3.00	25.00
Azora. Light pink	Tall	L. Pompon	Oct. 25	5.00	40.00
†Baby. Yellow	Short	S. Button	Nov. 10	3.00	25.00
*Balandus. Light pink with cream re-					
verse	Medium	L. Pompon	Oct. 25	3.00	25.00
†*Ball of Gold. Yellow	Medium	L. Pompon	Nov. 20	3.00	25.00
Becky McLane. Bronze	Medium	Button	Nov. 25	3.00	25.00
Betty Price. Brilliant orange suffused					
with light bronze	Medium	Button	Nov. 25	3.00	25.00
Betty Watkins. Bronzy yellow	Medium	L. Pompon	Thanksgiving	3.00	25.00
Big Baby. Yellow		Button	Thanksgiving	3.00	25.00
Bokhara. Bronze		L. Pompon	Oct. 25	- 3.00	25.00
†Bonnibel. Orange-buff		L. Pompon	Oct. 15	3.00	25.00
Bonnie Maid. Pink	Medium	Button	Oct. 18	3.00	25.00
†Bright Eyes. Bluish white with apricot					
eye		Button	Nov. I	3.00	25.00
Bristolite. Bronze		L. Pompon	Thanksgiving	7.00	65.00
Bronze Beauty. Bronze		L. Pompon	Thanksgiving	7.00	65.00
Bronze Doty. Bronze		L. Pompon	Nov. I	3.00	25.00
Bronze Ermalinda. Dark bronze		L. Pompon	Oct. 25	3.00	25.00
Bronze Queen. Bronze		Button	Oct. 25	3.00	25.00
Bronze Usona. Bronzy orange		L. Pompon	Thanksgiving	3.00	25.00
Brownie. Dark bronze		S. Button	Nov. 10	10.00	90.00
Campfire		L. Pompon	Nov. 20	7.00	65.00
Capt. Cook. Pink		L. Pompon	Oct. 20	3.00	25.00
*Cazlonia. Rose-pink with mauve re-		z. rompon	001.20	3.00	25.00
verse		L. Pompon	Oct. 25	3.00	25.00
Chicago Pearl. White		L. Pompon	Nov. 15	3.00	25.00
Christmas Gold. Bright yellow		S. Button	Dec. I	3.00	25.00
Clara Jameson Imp. Bronze		Button	Oct. 16	3.00	25.00
Clare. White		S. Button	Nov. 15	3.00	25.00
Claudette. Yellow		Button	Oct. 30	10.00	90.00
Clista. Yellow		S. Button	Nov. 10	10.00	
Clorinda. Bronze		L. Pompon	Thanksgiving		90.00
Cora Peck Buhl. Yellow		•		3.00	25.00
Cordova. White. A good late variety.		L. Pompon	Oct. 25	3.00	25.00
		L. Pompon	Thanksgiving	3.00	25.00
*Crimson Sheen. Purplish amaranth *Crystal White. White		L. Pompon	Oct. 20	5.00	40.00
· · · · · · · · · · · · · · · · · · ·		L. Pompon	Nov. 10	3.00	25.00
Dainty Maid. White with pink tints in some stages		S. Button	N 1	2.00	05.00
Diana. White			Nov. 1 Nov. 20	3.00	
	. Wedium	L. Pompon	1404. 20	3.00	25.00
*Good disbudded.					

^{*}Good disbudded.

[†]Good as pot plants.

[&]quot;Enclose Your Mum With Your Seed Order"

				Price	e
Name and Description	Height	Туре	Matures	Per IOO Pe	
Dorothy Turner. Bronze	Medium	L. Pompon	Thanksgiving	3.00	25.00
Dotson. Old rose		Button	Oct. 20	3.00	25.00
Dream. Pink		L. Pompon	Nov. 20	3.00	25.00
Earliwhite		L. Pompon	Oct. 10	3.00	25.00
*Edith Newberry. Orange-rust		L. Pompon	Nov. 5	3.00	25.00
Elora. Pearly white		L. Pompon	Nov. 1-10	3.00	25.00
Ermalinda. Old rose		L. Pompon	Oct. 25	3.00	25.00
†Ethel. Bronze		Button	Oct. 25	3.00	25.00
*Fire Ball. Bright crimson		L. Pompon	Nov. 2	5.00	40.00
Fire Bird. Red-bronze		L. Pompon	Oct. 25	3.00	25.00
Flame. Bright red	Tall	L. Pompon	Nov. 1-7	3.00	25.00
†Frank Wilcox, Jr. Bronze		Button	Thanksgiving	3.00	25.00
Galva. Bronze with golden reverse	Medium	S. Button	Oct. 30	10.00	90.00
Ginza. Yellow	Medium	L. Pompon	Oct. 30	3.00	25.00
*Gold Coin. Yellow	Medium	L. Pompon	Dec. I	3.00	25.00
Gold Finch. Deep, rich yellow	Medium	L. Pompon	Oct. 20	3.00	25.00
†Gold Mine. Yellow		Button	Nov. I	3.00	25.00
Gold Tips. Bronze and gold	Medium	L. Pompon	Thanksgiving	3.00	25.00
Golden Climax. Yellow	Me dium	Button	Nov. 15	3.00	25.00
Golden Varsity. Yellow (Sport of Var-					
sity. Deeper color)	Short	S. Button	Nov. 10	7.00	65.00
†Golden Fringe. Very bright yellow	Short	Button	Nov. 20	5.00	40.00
†Golden Gimp. Bright yellow with a					
very slight apricot tinge on reverse					
side	Medium	Button	Nov. 5	5.00	40.00
*Golden Herald. Deep golden yellow.	Medium	L. Pompon	Oct. 10-15	3.00	25.00
Golden Nymph. Bronze with reverse					
of petals gold, making finished					
bloom yellow	Medium	S. Button	Dec. 10 ·	3.00	25.00
Golden Sceptre. Bright yellow	Tall	L. Button	Nov. 25	3.00	25.00
Golden Splendor. Bright yellow		Button	Nov. 6	10.00	90.00
†Governor Lake. Reddish bronze		L. Pompon	Thanksgiving	3.00	25.00
Grenadier. Rich, deep red		L. Pompon	Nov. 10	3.00	25.00
Greta. White	Medium	L. Pompon	Oct. 20	3.00	25.00
High Lights. Fully developed white	11	_			
with salmon eye		Button	Nov. 3	10.00	90.00
Hilda Canning. Bronze		Button	Nov. 25	3.00	25.00
Ida Improved. Yellow		L. Pompon	Oct. 10	3.00	25.00
tlrene. White		Button	Oct. 15-20	3.00	25.00
*Irene Rich. Pink	Medium	L. Pompon	Nov. I	3.00	25.00
Iridescent. Gold and pink in various) 4 1t	L D	0 + +5	2.00	
shades		L. Pompon	Oct. 15	3.00	25.00
Juva Nicholson. Yellow		L. Pompon	Nov. 15	3.00	25.00
Jemima. Bronze		L. Button	Oct. 28	3.00	25.00
†Jewell. Bright pink		L. Button	Oct. 1-15	3.00	25.00
Joan. Bronzy orange	Medium	L. Pompon	Nov. 20	3.00	25.00
Joan Wells. Bronze. Sport of Pink Dot.	Medium	L. Pompon	Oct. 25	3.00	25.00
40 1 11 1					

^{*}Good disbudded.

[†]Good as pot plants.

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				Pri	ce
Name and Description	Height	Type	Matures	Per 100	Per 1000
Justine Miller. Reddish bronze	Medium	Button	Nov. 20-25	3.00	25.00
La Vera. Pink	Medium	L. Pompon	Nov. 1-10	6.00	50.00
Legal Tender. Bronze and gold	Medium	L. Pompon	Nov. 20	3.00	25.00
Leilah. Rose-pink	Tall	L. Pompon	Oct. 15	3.00	25.00
Letha. Reddish brown	Medium	S. Button	Oct. 25	10.00	90.00
Letitia. White with pink center	Tall	L. Button	Oct. 15	3.00	25.00
Lilac. Pink	Tall	L. Pompon	Oct. 15	3.00	25.00
*Lillian Doty. Shell-pink	Medium	L. Pompon	Nov. I	3.00	25.00
Lizzie Adcock (Yellow Source d'Or)	Medium	L. Pompon	Nov. I	3.00	25.00
Louise Davenport. Bronze	Medium	Button	Nov. 10	3.00	25.00
†Lois. Golden yellow	Medium	L. Pompon	Nov. 18	3.00	25.00
Lucinda. Deep pink	Tall	L. Pompon	Nov. 12-20	3.00	25.00
Marcella. Light pink	Medium	L. Pompon	Nov. 25 & Later	3.00	25.00
†Margot. White	Short	Button	Oct. 8	3.00	25.00
Marguerite Clark. Rose-pink	Medium	Button	Nov. 5	3.00	25.00
*Marianna. White	Medium	L. Pompon	Nov. 1-5	3.00	25.00
Marilyn. Orange-tan		L. Pompon	Oct. 22	3.00	25.00
Mary Lennon Hall. Clear, rich yellow.	Tall	L. Pompon	Nov. I	3.00	25.00
†Mary Pickford. White	Short	Button	Nov. I	3.00	25.00
*Masaka. Yellow		L. Pompon	Oct. 20	10.00	90.00
Minong. White		Button	Oct. 20-25	3.00	25.00
Modena. Yellow		L. Button	Nov. 30	3.00	25.00
†Mrs. Beu. Bronze	Short	L. Pompon	Thanksgiving	3.00 -	25.00
Mrs. N. G. Moore. Pure white. Sport					
of Olivia		L. Pompon	Dec. I-10	10.00	90.00
*Muskoka. Bronze		L. Pompon	Nov. 10	3.00	25.00
My Pride. Pink		L. Pompon	Oct. 20	3.00	25.00
Nellie Kleris. Lavender-pink		L. Pompon	Oct. 25	3.00	25.00
New York. Bronze		Button	Nov. 15	3.00	25.00
Norrine. Yellow	Medium	Button	Nov. 25	3.00	25.00
†November Bronze. Orange-bronze.		. 5	N1 15		
Very good		L. Pompon	Nov. 15	3.00	25.00
November Gold. Yellow		L. Pompon	Nov. 15	3.00	25.00
Nubian. Bronzy red		L. Pompon	Oct. 15-20	3.00	25.00
†Nuggets. Yellow		Button	Oct. 25	3.00	25.00
Olivia. Pink		L. Pompon	December	3.00	25.00
†Onargo. Light bronze		Button	Nov. I	5.00	40.00
Ouray. Dark scarlet		L. Pompon	Oct. 25	3.00	25.00
Pagosa. Dark pink		L. Pompon	Dec. 5	3.00	25.00
†Patsy Dowd. Red		Button	Nov. 5	5.00	40.00
Pauline Wilcox. Bronze	Medium	L. Pompon	Nov. 5	3.00	25.00
Pink Dot. White with bright pink			0		
center		L. Pompon	Oct. 25	3.00	25.00
Pink Popcorn. Pink	Medium	S. Button	Oct. 30	3.00	25.00
Princeton. Golden yellow suffused	A.4. 10	1 D	N1 15	=	/= 65
with orange		L. Pompon	Nov. 15	7.00	65.00
†Red Beu. Reddish bronze	Snort	L. Pompon	Thanksgiving	3.00	25.00
*Good disbudded.					

^{*}Good disbudded.

fGood as pot plants.

[&]quot;Enclose Your Mum With Your Seed Order"

				Price	9
Name and Description	Height	Туре	Matures	Per IOO Pe	er 1000
Red Wings. Red	Medium	L. Pompon	Nov. 15	3.00	25.00
Robin Hood. Rich deep red		Button	Early Nov.	6.00	50.00
†Rodell. Yellow		Button	Oct. 15	3.00	25.00
Rodell Imp. Sport of Rodell, produc-					
ing larger flowers	Short	Button	Oct. 20	10.00	90.00
Roman Bronze. Bronze. Sport of Capt.			3 3 2 3		, , , ,
Cook		L. Pompon	Oct. 20	3.00	25.00
*Romola. Soft pink		L. Pompon	Nov. 5	10.00	90.00
*Rose Charm. Rose-pink		L. Pompon	Nov. I	3.00	25.00
Roselea. Pink		L. Pompon	Dec. I	3.00	25.00
Rowenna. Bronze	Tall	L. Pompon	Thanksgiving	3.00	25.00
Royal Queen. White	Medium	L. Pompon	Dec. 5	3.00	25.00
Sarda. Deep pink. Sport of Pink Dot.		L. Pompon	Oct. 25	3.00	25.00
*Sea Gull. White. Excellent for sprays		·			
or disbudded	Medium	L. Pompon	Nov. I	3.00	25.00
*Silver Ball. White	Medium	L. Pompon	Oct. 12	3.00	25.00
Silver Star. White. Desirable for those		·			
who want very late varieties	Tall	L. Pompon	Dec. 5	3.00	25.00
Silver Tips. Bright pink with silver tips.	Medium	L. Pompon	Nov. 10	3.00	25.00
*Snow Bird. White		L. Pompon	Nov. 15	3.00	25.00
Snow Cloud. White		L. Pompon	Oct. 15	3.00	25.00
Source d'Or. Bronze		L. Pompon	Nov. I	3.00	25.00
Thanksgiving Gem. Orange-bronze		Button	Thanksgiving	3.00	25.00
*Thyra. Dark pink		L. Pompon	Nov. I	5.00	40.00
Tonquin. Rose color		L. Pompon	Dec. 10	3.00	25.00
*Unalga. Yellow		L. Pompon	Nov. 25	3.00	25.00
Usona. Pink		L. Pompon	Thanksgiving	3.00	25.00
Uvalda. White		L. Pompon	Oct. 10	3.00	25.00
†Varsity. Yellow	Short	Button	Nov. 10	3.00	25.00
*Vera Victoria. Yellow		L. Pompon	Nov. I	3.00	25.00
†Wee Dot. Bronze. Very small	Short	S. Button	Oct. 25	3.00	25.00
Western Beauty. Old rose		L. Pompon	Nov. 15-25	3.00	25.00
White Caps. White		L. Pompon	Early Nov.	3.00	25.00
*White Doty. White		L. Pompon	Nov. I	3.00	25.00
White Wings. White		L. Pompon	Oct. 10	3.00	25.00
Yellow Bird. Yellow		L. Pompon	Nov. 18	3.00	25.00
†Yellow Dot. Lemon-yellow	Short	S. Button	Nov. 10	3.00	25.00
Yellow Dot. (Jablonsky) Yellow. Sport					
of Pink Dot	Medium	L. Pompon	Oct. 25	3.00	25.00
*Yellow Doty. Yellow	Medium	L. Pompon	Nov. 1	3.00	25.00
†Yellow Fellow. Yellow		L. Pompon	Nov. 15	3.00	25.00
*Yellow Muskoka. Bronzy yellow	Tall	L. Pompon	Nov. 10	3.00	25.00
Yellow New York. Yellow. Sport of					
New York	Medium	Button	Nov. 15	3.00	25.00
Yellow Silver Star. Yellow. Sport of					
Silver Star		L. Pompon	Dec. 10	10.00	90.00
†Yuletide, White. White	Short	L. Pompon	Dec. I	3.00	25.00
*Good disbudded					

^{*}Good disbudded.

[†]Good as pot plants.

[&]quot;Enclose Your Mum With Your Seed Order"

				Pr	ice
Name and Description	Height	Туре	Matures	Per 100	Per 1000
†Yuletide, Yellow. Yellow	Short	L. Pompon	Dec. I	3.00	25.00
†*Yuvawn. Yellow	Medium	L. Pompon	Nov. 25	3.00	25.00
Zenobia. Yellow	Short	L. Pompon	Oct. 10-20	3.00	25.00
Zoe. Golden bronze	Medium	L. Button	Nov. 20	3.00	25.00
Zora. Yellow	Short	L. Pompon	Oct. 15-20	3.00	25.00
Zoroka. Yellow with bronze tip	Medium	Button	Oct. 30	10.00	90.00

Single Varieties — Daisy Type

			P	rice
Name and Description	Height	Matures	Per 100	Per 1000
Aloma. Terra cotta bronze with yellow center	Medium	Oct. 15	\$3.00	\$25.00
†Buckingham, Bronze. Bronze	Short	Nov. 5	3.00	25.00
†Buckingham, W. H. Pink	Short	Nov. 5	3.00	25.00
Charter Oak. Yellow	Tall	Nov. 25	3.00	25.00
Christmas Cheer. Scarlet. Sport of Mrs. E. D. Godfrey.	Medium	Thanksgiving	3.00	25.00
Dusky Maid. Yellow	Medium	Thanksgiving	3.00	25.00
Elizabeth Firestone. Pink	Medium	Nov. 15 & Later	3.00	25.00
Elizabeth McDowell. Bronze	Medium	Nov. 15	3.00	25.00
Golden Mensa. Yellow		Nov. 10	3.00	25.00
Gretchen Piper. Deep glowing yellow	Medium	Oct. 25	3.00	25.00
Helen Hubbard. Red	Medium	Thanksgiving	3.00	25.00
†lda Skiff. Bronze	Short	Nov. I	3.00	25.00
*Jean. White	Medium	Nov. I	3.00	25.00
Margaret Waite. Cerise-pink. Sport of Mrs. E. D.				
Godfrey	Tall	Thanksgiving	3.00	25.00
†*Melba. Reddish bronze in unusual shades	Medium	Nov. 5	3.00	25.00
Minnesota. Blood-red	Tall	Nov. 10	3.00	25.00
Miss Gladys. Bronze. Sport of Mrs. E. D. Godfrey	Medium	Thanksgiving	3.00	25.00
Miss Isabelle. Bronze	Tall	Thanksgiving	3.00	25.00
Mrs. E. D. Godfrey. Light pink	Medium	Thanksgiving	3.00	25.00
Mrs. Herbert Hoover. Orange-bronze	Medium	Thanksgiving	3.00	25.00
Murray Hill Beauty. Old rose	Medium	Thanksgiving	3.00	25.00
Radiant. Bright red	Medium	Nov. 5-10	10.00	90.00
*Red Rover. Crimson-orange	Medium	Nov. 5	7.00	65.00
Rich Red. Red.	Medium	Nov. 10	3.00	25.00
Ruth Adams. Bronze	Medium	Nov. 5	3.00	25.00
Ruth Warren Smith. Golden buff-yellow overlaid				
with red	Medium	Nov. 10	3.00	25.00
Sunny Boy. Yellow	Medium	Nov. 15	7.00	65.00
†Thanksgiving Bronze. Dark bronze	Medium	Thanksgiving	3.00	25.00
Valencia. Orchid-pink	Tall	Nov. 30	7.00	65.00
White Godfrey. White	Medium	Thanksgiving	3.00	25.00
White Mensa. White	Medium	Thanksgiving	3.00	25.00
Yellow Godfrey. Yellow	Medium	Thanksgiving	3.00	25.00
** 1 1 1 1 1				

^{*}Good disbudded.

[†]Good as pot plants.

[&]quot;Enclose Your Mum With Your Seed Order"

Anemone-flowered Varieties

			Pri	се
Name and Description	Height	Matures	Per 100 1	Per 1000
*Adenlair. Shell-pink	Medium	Nov. 15-20	\$3.00	\$25.00
*Admiration. Orchid with lighter reverse	Medium	Oct. 28	10.00	90.00
*Aloysia. Bright yellow with slight red shading on re-				
verse	Medium	Nov. I	10.00	90.00
†*Beautiful Lady. Bright pink petals with creamy white				
cushion		Nov. 20	3.00	25.00
*Berneita. Shell-pink petals. White cushion		Nov. I	3.00	25.00
*Betty Rose. Pink, both petals and cushion		Oct. 25-Növ. 1	3.00	25.00
*Birdine. Light orchid		Oct. 28	10.00	90.00
*Blanche. White	Medium	Oct. 27	3.00	25.00
*Bronze Graf von Oriola. Bronze, in very striking				
shades		Nov. 15-20	3.00	25.00
Bronze Volunteer. Rich bronze. Sport of Volunteer		Thanksgiving	4.00	35.00
*Buff Queen. Bronzy buff		Nov. I	6.00	50.00
*Calypso. Orange suffused with pink		Oct. 28	10.00	90.00
*Captivation. Mahogany-red. (Exhibition)		Nov. 10	3.00	25.00
*China Rose. Dragon's blood red		Nov. 10	7.00	65.00
*Cremona. White petals with straw-yellow cushion		Nov. 5	3.00	25.00
†*Crimson Glow. Crimson-maroon		Nov. 25-30	3.00	25.00
*Estrelita. Bronze throughout, with a full regular				
cushion		Nov. 15 & Later		25.00
†Eugene Langaulet. Bright yellow		Th an ksgivi n g	3.00	25.00
*Eva Le Gallienne. Crushed raspberry with center of		0.1.55		100
gold		Oct. 25	12.00	100.00
Garza Supreme. White		December	3.00	25.00
Godfrey's Perfection. White		Thanksgiving	3.00	25.00
Golden Lida Thomas. Golden yellow		Thanksgiving	3.00	25.00
Golden Pheasant, Yellow		Nov. 25	3.00	25.00
*Golden State, Yellow		Nov. I	3.00	25.00
†*Graceland. Pure white with yellow center		Oct. 25	3.00	25.00
†*Izola, Amaranth		Nov. I	3.00	25.00
*John Shields. Light yellow		Nov. 10	7.00	65.00
†*Laelia. Rose-pink		Nov. I Nov. 20	3.00	25.00
*La Nona. Petals rosy amaranth, buff cushion			3.00	25.00
Lida Thomas. White petals and yellow centers		Thanksgiving Nov. 10	3.00	25.00 25.00
†Maple Leaf. Red-yellow and bronze		1407. 10	3.00	25.00
†*Margo. Pinkish violet outer petals with high, round,		Nov. 5	3.00	25.00
yellow cushion		Oct. 20	3.00	25.00
*Marietta. Soft pink with very full cushion		001. 20	3.00	25.00
*Maritza. Bright yellow with full, highly rounded cushion		Thanksgiving	3.00	25.00
		Nov. 5	3.00	25.00
Mrs. Alfred G. Wilson. White		Nov. 15	12.00	100.00
*Mrs. J. H. Ballagh. Pink		Nov. 10-Dec.	3.00	25.00
*Norma. Orchid-pink petals with golden pink cushion †*Noveltie. White throughout with large cushion		Nov. 15	3.00	25.00
*Orange Glow. Rich orange		Nov. 10	3.00	25.00
*Good dishudded.	. Woodulii		7.00	
'LZOOG GISDIIGGEG.				

^{*}Good disbudded.

[†]Good as pot plants.

[&]quot;Enclose Your Mum With Your Seed Order"

Anemone-flowered Varieties (Continued)

			Pı	ice
Name and Description	Height	Matures	Per 100	Per 1000
†*Pink Lady. Pink petals with light pink cushion	Short	Nov. 15	3.00	25.00
*Pink Supreme. Delicate shell-pink petals with cushions				
somewhat lighter	Tall	Nov. 30	3.00	25.00
*Pomona. White petals with straw colored cushion	Medium	Nov. I	3.00	25.00
Purple Queen. Purplish amaranth	Tall	Nov. 10	10.00	90.00
Rio Rita. Yellow		Nov. 10	3.00	25.00
†*Rolinda. Orange-bronze		Nov. 20-Dec. I	3.00	25.00
*Rose Madder. Deep rose-pink		Oct. 25	12.00	100.00
*Smith's Innocence. White		Nov. 5	5.00	40.00
*Stoplight. Terra cotta petals with low yellow cushion		Nov. 5	3.00	25.00
†*Sunshine. Yellow		Thanksgiving	3.00	25.00
*Susanne Miller. Yellow. Sport of Norma		Nov. 10-Dec. I	3.00	25.00
*The Belle. Pure white		Nov. 1-5	3.00	25.00
*The Titan. Scarlet-crimson with bronzy red cushion		Nov. 5	3.00	25.00
*Topknot. Creamy white cushion, rosy pink petals		Nov. 5	5.00	40.00
*Triumph. Golden bronze		Oct. 25	3.00	25.00
*Tuxedo. Pink		Nov. 10	5.00	45.00
*Verona. Golden buff, full cushion		Oct. 20	3.00	25.00
Volunteer. Yellow		Thanksgiving	3.00	25.00
*White Berneita. White		Nov. I	3.00	25.00
*White Norma. White		Nov. I	10.00	90.00
Yellow Garza Supreme. Yellow	Short	Dec. I	3.00	25.00

Hardy Varieties

				Pr	ice
Name and Description	Height	Туре	Matures	Per 100	Per 1000
A. Barham. Orange-bronze	Short	Decorative	Oct. I	\$3.00	\$25.00
Adelaide. Mahogany	Medium	Button	Early Oct.	3.00	25.00
Albert Muller. Apricot suffused with					
pink	Medium	Decorative	Oct. I	7.00	65.00
Alice Howell. Orange-yellow	Medium	Single	Oct. 5	3.00	25.00
Aladdin. Bronze	Short	Decorative	Sept.	3.00	25.00
Amelia (Pink Cushion). Bright pink	Short	Decorative	Sept.	3.00	25.00
Barbara Cumming. Yellow shading to					
bronze	Medium	Decorative	Sept.	3.00	25.00
Carrie. Yellow	Medium	Decorative	Early	3.00	25.00
Cavalier. Rich vermilion-red	Tall	Single	Oct. 15	6.00	50.00
Crimson Splendor. Crimson	Medium	Single	Sept.	5.00	45.00
Daybreak. Shell-pink	Medium	Single	Oct. 10-15	3.00	25.00
Dazzler. Cardinal-red	Medium	Single	Oct. 10-15	3.00	25.00
Donald Wells. White	Medium	Single	Sept.	3.00	25.00
†Early Bronze. Bronze	Short	Button	Sept.	3.00	25.00
†Eden. Rose-pink		Decorative	Oct. I	3.00	25.00
Evelyn. Bronze		Decorative	Oct. 1-5	3.00	25.00
Excelsior. Yellow	Medium	Button	Oct. 15-20	3.00	25.00

^{*}Good disbudded.

[†]Good as pot plants.

[&]quot;Enclose Your Mum With Your Seed Order"

Hardy Varieties (Continued)

				Pric	:e
Name and Description	Height	Туре	Matures	Per 100 P	er 1000
Francis Whittlesey. Rich bronze and					
garnet	Short	Decorative	Sept. 30	3.00	25.00
Ganna. Bright pink	Medium	Decorative	Oct. 12	3.00	25.00
†Glada. Soft pink		Decorative	Sept.	3.00	25.00
Glomero. Bronzy orange		Button	Oct. 5	3.00	25.00
Granny Scoville. Warm coral-bronze		Decorative	Oct. 15	6.00	50.00
Grenadier (Hardy). Crimson-red		Single	Oct. 5-10	3.00	25.0 0
Gypsy Girl. Chestnut-crimson		Single	Early Oct.	3.00	25.00
Harvest Moon. Golden yellow		Button	Oct. 15-20	3.00	25.00
Hilga. Bluish magenta		Decorative	Oct. 15	3.00	25.0 0
Jack Bannister. Light yellow		Decorative	Oct. 10	3.00	25.00
Jean Cumming. White		Decorative	Sept.	5.00	45.00
Jean Treadway. Pink with dark center.	Medium	Decorative	Oct. 1-10	5.00	45.00
Little Barbee. Red.		Button	Oct. 15-20	3.00	25.00
Little Bob. Dark bronze	Short	Button	Oct. I	3.00	25.00
Lorelei. Yellow	Medium	Decorative	Sept. 10	3.00	25.00
Meduse. Terra cotta bronze	Medium	Decorative	Oct. 5-15	3.00	25. 00
Mayellen. Cerise-pink	Medium	Decorative	Sept. 15-Nov. I	3.00	25.00
Metzi. Yellow		Button	Oct. 15-20	3.00	25.00
Mrs. Calvin Coolidge. Cardinal-red	Medium	Single	Oct. 15-20	3.00	25.0 0
Mrs. J. Willis Martin. Blending of		-			
crimson and crushed strawberry	Medium	Decorative	Oct. 10	3.00	25 .00
Mrs. L. Birchard. Shell-pink		Button	Oct. 10-15	3.00	25.00
Muldoon. Purplish amaranth		Button	Oct. 12	3.00	25.00
Murillo. Pink		Decorative	Oct. 12	3.00	25.00
Normandie. White		Decorative	Sept.	3.00	25. 00
October Dawn. Shell-pink	Medium	Decorative	Oct. 5-15	3.00	25.00
October Girl. Rose-pink		Decorative	Early Oct.	3.00	25.0 0
Olga. Pink		Decorative	Oct. 10	3.00	25.00
Provence. Soft pink blended with					
yellow	Medium	Decorative	Sept.	3.00	25.00
Red Flare. Bright red		Button	Oct. 15	3.00	25.00
R. Marion Hatton. Canary-yellow		Decorative	Oct. 1-10	3.00	25.00
Rosy Gem. Bright pink or rose		Decorative	Oct. 15	3.00	25.00
Ruth Cumming. Reddish bronze		Decorative	Early Oct.	3.00	25.00
Ruth Hatton. Ivory-white		Decorative	Oct. 10	3.00	25.00
September Queen. White		Decorative	Sept.	3.00	25.00
Skibo. Pure yellow		Button	Oct. 15	3.00	25. 00
Sonoma. Bronze with golden reverse		Decorative	Oct. I	3.00	25.00
Tasiva. White		Decorative	Sept.	3.00	25. 00
Vivid. Rosy crimson		Decorative	Oct. 1-10	3.00	25.00
Winnetka. White		Decorative	Oct. I	3.00	25.00
Wolverine. Yellow		Decorative	Sept.	3.00	25.0 0
†Yellow Gem. Canary-yellow		Button	Oct. 5-10	3.00	25.00
Yellow Normandie. Yellow		Decorative	Early	3.00	25.00
Zaza. Yellow with orange at base of					
petals		Decorative	Oct. 15	3.00	25 .00
*Good disbudded.					

^{*}Good disbudded.

[†]Good as pot plants.

[&]quot;Enclose Your Mum With Your Seed Order"

Korean Hardy Varieties

				Pı	rice
Name and Description	Height	Туре	Matures	Per 100	Per 1000
Apollo. Bronze-red	Medium	Single	Oct. 12	\$10.00	\$90.00
Ceres. Old gold	Medium	Single	Oct. 10	10.00	90.00
Country Girl. Pink	Tall	Single	Oct. 10	10.00	90.00
Daphne. Pink	Medium	Single	Oct. 12	10.00	90.00
Diana. Rose-pink	Medium	Single	Oct. 12	10.00	90.00
Hebe. Lavender-pink	Medium	Single	Oct. 15	20.00	
Innocence. White	Short	Single	Sept.	6.00	50.00
Louise Schling. Bronze-salmon	Medium	Single	Oct. 5	10.00	90.00
Mars. Wine-red	Medium	Single	Oct. 15	10.00	90.00
Mercury. Blend of old rose and salmon.	Medium	Single	Sept. 30	10.00	90.00
Orion. Canary-yellow	Medium	Single	Oct. 5	20.00	
Vulcan. Bronze-crimson	Medium	Single	Oct. 5	20.00	•••••

Pot Plant Varieties

In addition to varieties listed here as essentially intended for pot plant culture, many of the varieties listed under pompons are excellent as pot plants. Short and medium sorts should be used for this purpose. (A number of such varieties are denoted by the character (†).

				Pı	ice
Name and Description	Height	Туре	Matures	Per 100	Per 1000
Benoit. Cerise-pink	Short	L. Pompon	Oct. 20-25	\$3.00	\$25.00
Bright Light. Bright yellow	Short	L. Pompon	Nov. 20	3.00	25.00
*Bronze Prince. Bronze	Short	L. Pompon	Nov. I	3.00	25.00
Caprice, Butler's. Deep pink	Short	L. Pompon	Oct.	3.00	25.00
Caprice, Lilac. Deep lilac	Short	L. Pompon	Oct.	3.00	25.00
Caprice, Purple. Purple	Short	L. Pompon	Oct.	3.00	25.00
Caprice, White. White	Short	L. Pompon	Oct.	3.00	25.00
Caprice, Yellow. Yellow	Short	L. Pompon	Oct.	3.00	25.00
Eileen Masson. Dark rose. Dwarf plant					
and very early	Very Short	Single	Oct.	3.00	25.00
Floradora. Light bronze florets, orange					
cushion	Short	Anemone	Nov. I	3.00	25.00
Greystone. Golden orange	Short	L. Pompon	Nov. 10	3.00	25.00
Kathleen Thompson. Bronze	Short	L. Pompon	Oct.	3.00	25.00
Ohio State. Yellow	Short	Anemone	Nov. I	3.00	25.00
Patty. Pink	Short	L. Pompon	Late	3.00	25.00
Pygmy. Light pink	Short	L. Pompon	Nov. 10	3.00	25.00
Savanta. White with tint of pink	Short	L. Pompon	Nov. I	3.00	25.00
Titian Beauty. Deep rich bronze shad-					
ing in center to scarlet	Short	Anemone	Nov. 25	3.00	25.00
W. H. Lincoln. Yellow	Short	L. Pompon	Late	3.00	25.00

[&]quot;Enclose Your Mum With Your Seed Order"

Latest Developments in Culture Of Chrysanthemums

Following is an address by Geo. J. Ball at the meeting and short course of the Society of Iowa Florists, Ames, Ia., November 23, 1935.

There are approximately 20,000 florists retailing in the United States. For the sake of a figure, let us say their average sale of chrysanthemums will be \$250. On that conservative basis the crop would value, to the growers, five million dollars! That might explain the increasing interest in the Chrysanthemum Society of America. Most encouraging, too, is the favor that unfailingly greets the annual return of the chrysanthemum.

Back in the early so-called gay 90's, I well recall an authoritative statement to the effect that the chrysanthemum craze had about spent itself, for it was hardly thought possible to make further considerable improvements in the mum. This was recognizing the fact that interest in any class of plants can only be maintained by improvements or variations. How fortunate that we so well appreciate this! About that time a young fellow, Elmer D. Smith, evidently disagreed with this statement, for he has to his credit since those days the amazing accomplishment of having produced 615 accepted varieties! The dollar value of this work is not readily appreciated. And that unassuming genius, Alex Cumming, at Bristol, Conn., who is introducing the virility of Korean varieties into our stock, believes the dawn of real chrysanthemum prosperity is just breaking. And in the light of his recent work with the smallflowered class, I believe he is right. It is perfectly clear that the prosperity of any florists' stock depends on such outstanding plant breeders. Would it not be good business to supplement the satisfaction in this work with more substantial encouragement?

Shading of Plants.

By far the most valuable contribution that has been made to mum culture is the discovery of the fact that chrysanthemums can be classed as short-day plants, meaning that they are induced to flower or set buds by shortening the days. This was worked out a dozen years ago and full commercial advantage of this discovery was not taken until eight or nine years later. Especially valuable is this early-flowering method to our growers because of heavy inroads on our markets by the more economically produced and naturally earlier-flowering California

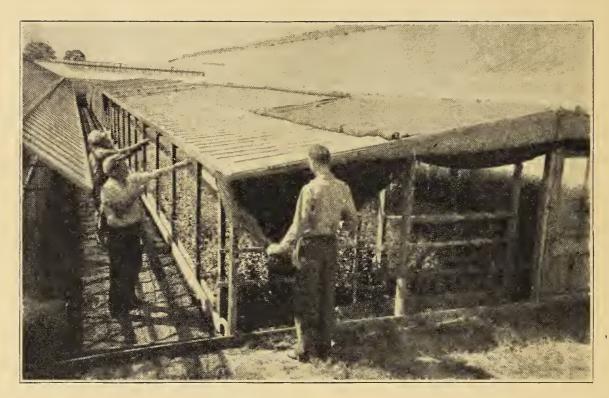
product.

Briefly put, the premature shortening of days for mums is done by covering and so darkening them with black light-proof cloth about 6 o'clock in the evening and removing it about 7 o'clock in the morning. Though air circulation about the plants is shut off, no harm is done. Remember that the cloth is on only to shorten the daylight hours; the cover is not needed after dark. That is all there is to it, except some plain, easily carried-out requirements, the fundamental one being early planting. In our latitude planting should be completed early in May, not later than immediately after Mothers' day. necessity of this is due to the buds' setting much earlier, after which the stems, of course, cannot lengthen greatly, not over twelve inches for the shorter-stemmed standards and sixteen to eighteen inches for the taller, with the pompons hardly more than half that. We use largely February propa-gation, but if this early stock becomes hardened or is overcrowded, Marchstarted plants will be much better.

More damaging to the future crop than many growers realize is a check to growth, especially of young stock. Late planting of stock or its not having enough growth when shading is started explains the short-stemmed flowers frequently noted about most markets. We might sell such stock under market conditions like those of last fall, but only long-stemmed, clean stock will average a profit. So, if the growth is not up as suggested, better forget the shade and give the plants time enough to draw up and come normally.

Suitable Varieties and Spacing.

We have found most varieties of pompons suitable for this early, or September flowering. A few are too soft for the occasional warm weather they will be exposed to. The pink Leilah and that old-timer, Uvalda, are varieties that warm weather easily turns brown with decay. Varieties we have found excellent and that we use largely



Showing method of applying black-cloth shade. This shading plan requires two men, a half-hour to let down the cloth, and the same time to put up. John L. Lunsted of Clifton, N. J., does this more efficiently by running a shaft down center, inside of house, to which are attached the controlling ropes. With a crank on shaft, all the cloth is rolled up and down at once with ease.

are: Nuggets, Pink Dot, Dream, Chicago Pearl, New York, Irene, Betty Watkins, Mrs. Wilcox and Silver Ball disbudded. And there are plenty of others, for any variety will do except such as are soft.

I should qualify this by stating that excessive heat and strong sun in late September will fade some life out of most pink and bronze varieties. November varieties in these colors come well with us flowered around October 1, or with cooler weather.

Our spacing of pompons is 8x8 inches, except New York, which does not seem to break so freely, so that the spacing should be closer, 6 or 7x8 inches, according to the strength of the plants. We top all pompons for black-cloth shading around June 10—not much later. Our spacing for nearly all standards is 6x8 inches, one flower to a plant. Most retail growers carry some three to five to a plant, producing medium-size flowers to good advantage, but where one depends on a highly competitive wholesale market the culture must be different.

Hardness.

Among the big standards, too, there is considerable difference in hardness of flowers, and when losses occur through rot, it hurts. Much loss through spotting or rot of even good,

hard varieties is caused by running houses too cold and damp. It is all right to carry them quite cool, but do so with plenty of ventilation day and

night.

Give the choice of varieties close consideration, using untried ones in a tentative way. A trial lot of Tom Browne was a total loss this season with us. Ambassador we find soft when flowered late in September, but fine in early October. In fact, size in most flowers seems to be attained at the cost of hardness. A classical example is the Turners. Under favoring conditions, these big fellows will finish splendidly. But summer conditions frequently settle on our latitude the last half of September, and only the hard ones will stand it.

Silver Sheen we find as nearly perfect as it can be. It is a good size, too, when well grown, and white is always wanted. Mrs. Kidder is our favorite yellow, and Friendly Rival is the same golden yellow in September as in November. Late September weather will fade Gladys Pearson to nearly a clear yellow; the variety is unusually good, though. So is Citronella. This variety is rather short-stemmed and must have an early start. Most of our mums are grown in cold, or sash houses, with well drained ground beds. For reasons we cannot ex-

plain, Citronella does not get into good growth under these sash-house conditions, but is fine with us in the regular greenhouses. Marie De Petris we find excellent; so are Norma and Source d'Or and the new single Valencia disbudded-three to four to a plant.

The big standards will set buds in three to four weeks of black-cloth treatment, and after buds are taken, shading is discontinued. This applies to all the disbuds. Pompons should be shaded until the center buds show color. This is necessary in order to have plenty of lateral buds set. Failure to prolong shade on pompons will leave some lateral growth blind. In making plans for planting, one must keep this difference in the shading period in mind.

Early-flowering varieties in both classes will set buds and flower somewhat earlier than will late ones. For this reason only regular October-flowering kinds should be used for flowering about mid-September. However, the past season we flowered in our cold houses Friendly Rival and New York September 25 from plants on which shading was started July 15.

Sash, or Cold Houses.

We maintain a close cost accounting system of all crops grown, and mums in our big, costly houses frequently do not show a profit because of investment and depreciation charges. Do not forget that one way or another these charges must be met. For several years we have moved our mum growing to what we call sash, or cold houses such as seen in the illustration on page 20. Because of their low overhead costs, we have been able to make these houses profitable to the extent of about 10 cents per square foot of bench space, all costs counted. There are three good reasons for this: (1) Entire crop was flowered in September through shading, (2) low cost of houses used and (3) better quality of stock through use of these open, comparatively cool houses.

Any available material is used in their construction, which consists of nothing but roof. The sides are left entirely open. To protect the stock against a possible freeze and to develop a short spring crop before mums are planted, we use on the sides a heavy canvas material that is readily hooked into place. In addition, 1-inch steam lines are run through, for even late September mums sometimes need the drying effect of artificial heat during wet weather. Pompons, however, would hardly require this. In our lati-

tude we can keep frost out of these houses after March 1.

To Follow Mums.

An important possibility in connection with the mum crop is something that can be planted or started up early in March and cleared out not later than Mothers' day. Darwin tulips fit in exactly. They are planted right after mums are cleared out and are cut out in time to plant mums. If heat is turned on and the house is closed in early in March, tulips can be flowered from a late Easter to Mothers' day, and for a business that retails its product, they would, no doubt, pay. But with our dependence upon a wholesale market, our returns seldom exceed costs, low as they are.

We are trying a number of annuals and perennials this season and feel confident that something to fit in this early short period can be found. We are trying the Elder type of perennial daisies, and there are a number of strains that flower outdoors in June that might fit in. Delphinium has possibilities, particularly the chinensis type known as Cambridge Blue, which flowers normally in seven months from seeds. And there are annuals such as candytuft, snapdragons, centaureas, gypsophila and others that could be sown in January, carried on in flats or pots and run into these cold houses in March, a season when indoor space is at a premium or should be.

Getting back to our subject—to spread the maturing of the crop, we apply black-cloth shading to our mums on three separate dates, July 15 and 25 and August 5. This sequence matures the crop from September 12 to 15, to early October. When the large standards open, we protect them with a fairly heavy shade. This not only reduces the heat somewhat, but a September sun inclines to burn the blooms, especially if they are soft. This burning or rotting of petals is the one weak factor of the early-flowering plan and must be guarded against, especially in the selection of varieties, already touched upon.

In Applying Cloth.

As seen in one illustration, we apply cloth over the entire house in sections eighteen feet wide. Each section over the house is in one piece and is nailed to the ridge with a lath. Three-inch round poles are attached to the ends of the cloth by means of which the cloth is rolled up or down with a rope and pulley attached to the ridge. To prevent possible leaking of light, we allow a lap of twelve inches in joining

the sections. The houses pictured are 22x140 feet; 674 square yards of cloth

cover this-sides and top.

If the plan whereby each bed is covered individually were used, 1,008 square yards of cloth would be necessary for standard mums, for which the shade should be five feet high, and 720 square yards for pompons, which call for shade about three feet above the ground level. These figures are presented to show the actual cloth saving in covering the entire house when it is not a large one. Whatever plan is used must be made to fit the house. If it is a large one without obstructing posts, cloth will be conserved by covering the entire area inside as one large bed.

We use a black sateen cloth, which costs around 15 cents per square yard. We find this material will last at least three seasons if properly cared for. As far as we know, this is the most suitable for this purpose. Any opaque material will do

terial will do.

In the list of shading dates, given below, it will be noted that cloth used on the earliest-shaded lot of large mums will be free to use again on the last lot, considerably reducing cloth costs.

Chrysanthemum Shading Dates.

	Shade	Shade	In Full
Varieties	Started	Removed	Crop
Silver Sheen	.Aug. 1	Aug. 20	Sept. 25
Citronella	.Aug. 1	Aug. 20	Oct. 5
Norma		Aug. 25	Oct. 10
Silver Ball	.Aug. 1	Aug. 25	Sept. 25
Irene	.Aug. 1	Aug. 25	Sept. 25
Adelaide	.Aug. 1	Aug. 25	Sept. 25
Pink Dot	.Aug. 1	Aug. 25	Oct. 3
Dream	.Ang. 1	Aug. 25	Oct. 6
Nuggets	.Aug. 1	Aug. 25	Sept. 25
Source d'Or	.Aug. 1	Aug. 25	Oct. 7
Gold Lode	.Aug. 1	Aug. 20	Sept. 12
Friendly Rival	.Aug. 1	Aug. 20	Oct. 8

Following Are Results of Season '33.

	Shade '	Shade	In Full
Varieties	Started	Removed	Crop
Ambassador	July 15	Aug. 8	Sept. 10
Quaker Maid	July 15	Aug. 8	Sept. 10
Celestra	July 15	Aug. 8	Sept. 12
Norma		Sept. 9	Oct. 20
Citronella		Aug. 8	Sept. 10
Citronella		Aug. 15	Sept. 25
Mrs. Wilcox			
(Beu)	.Sept. 10	Oct. 7	Nov. 10
Source d'Or		Sept. 9	Oct. 20

Some fairly successful attempts have been made the past season in growing pompons under black cloth in the open without glass shelter, but under the protection of cheesecloth throughout the season. This has raised fears of low-priced overproduction. I do not believe that clean, long-stemmed flowers will be consistently grown in this way or that the method will average a profit. The effect of exposure to wind and rains, especially as the flowers are ready to develop, is to mar that finish and color that can only be had under glass protection. Good buyers quickly note the difference. Such second-grade

stock will doubtless be something of a competitive factor affecting the returns on good, clean flowers, but with plenty of high-grade stock available, second-grade flowers are not profitable.

Perfectly finished flowers are not so important in pot plants, which can be readily and economically grown in the open and shaded for early flowers. In fact, more shapely plants are produced this way than when grown normally, the early flowering leaving them dwarfer—a prime point in a mum pot plant. Plenty of well grown pot plants of varieties ordinarily not ready until mid-October can be sold as the atmosphere of fall sets in late in September.

Disease.

Chrysanthemums are inherently cooltemperature plants and naturally resistant to disease if given a chance to be. But I do occasionally-yes, frequently-meet growers with weak, "sick" plants who want to know with what "disease" the plants are affected. The fundamental requirement for a successful crop is starting with strong, clean young stock; when such plants get into clean, well drained soil, are not overwatered at any time and are kept free of aphis, there will, ordinarily, be no disease affecting the mums. A careful experienced grower can nurse weak young stock along and come out all right with it—maybe. But as a rule, it will be more profitable, if it may be put that way, to leave the beds idle than to fill them with such

As has been shown, the profit margin in this crop is close, and with a handicapped start, it easily slips to the debit side. I speak from the standpoint of a market grower. Perhaps the more fortunate retail grower feels that he does not need to figure so closely. That is a mistake. The weak, scrawny stock we have all sometimes seen is usually due, not to a disease, but to poorly drained old soil, which rots away all roots the weak plants attempt to make. If an example is wanted of the value of fresh young stock, just divide and plant some old stock plants, a thing most of us have tried to do.

In Open in Summer.

The practice of using for propagating stock plants that have been subjected to a hot greenhouse all summer is a general one and I feel certain that it will slowly but certainly weaken the chrysanthemum. This belief is based on the fact that all forms of life change or adjust themselves to the conditions in which they are placed. More natural treatment, one that will result in

decidedly more vigorous, clean young plants, is to grow propagating stock in the open field during the summer. This treatment will usually, in one season, restore enough native vigor to free the plants of midge, which spreads disastrously under glass. In propagating young stock for this purpose, use short-jointed cuttings, such as have plenty of eyes from which to break. Cuttings without eyes at the base or below the soil will, of course, be unproductive of growth for propagating. Cuttings with a single eye can be used, but not, of course, for propagating.

Another point in producing normally hard cuttings, such as will not be swept away with rot in the sand, is the use of a shallow raised bed in a light house for stock plants. A deep ground bed of old soil that does not drain promptly is responsible for stock plants' frequently turning yellow and rotting out. Wintering them under benches with little attention often accounts for the active demand for young stock around

planting time.

The necessary and rather costly care of stock plants raises the question of whether or not it pays the grower, especially one whose planting is limited, to do his own propagating. When properly cared for, stock plants occupy valuable space all winter, and kept clean of insects, particularly midge, they represent a substantial cost. And there are frequent losses in the sand and much time used in propagating during the busy spring months when the value of time is at its height. Accurate cost figures on rooted cuttings are sometimes surprising when all costs are accounted for. In our records the costs per cutting usually run close to 2 cents, and with much rotting in the sand, they might run higher. When this work is carried out on a large scale with a competent man responsible for it, this figure can be reduced somewhat. But the fact that costs increase in producing smaller quantities is undeniable. Swapping stock plants with neighbors is an excellent plan of exchanging soil disease and insects. Watch for the possibilities involved in

The life of any line of business depends on the stimulation of variety. How well we are daily reminded of it! Our business is no exception to this reaction to change. There is plenty of appealing chrysanthemum variety among recent novelties, and how necessary it is to keep up with them!

Small-flowered Class.

Outstanding improvements in the small-flowered class explain its as-

cendancy the past few seasons and this will increase with the vitalizing influence of the Koreans.

The new Bristol variety, Glow, is a medium-size bronze with a glowing orange suffusion. It will make a hit and be right for Thanksgiving. Fez improves New York in size, is about a week later and holds its color better. Yellow New York is a choice, midseason yellow button. Last season's Princeton, a deep golden yellow, shaded orange, has taken well. For late September flowering with black cloth, do not overlook Nuggets and Pink Dot. Dream, a semidouble, long-stemmed flesh pink, is choice to get in about October 1 or its natural season, early November.

Taking in the fall shows is necessary for one to appreciate the recent advances in singles. Tagoya, a medium-size midseason variety, should head the list of new ones; it is bronze with a metallic rose sheen. Last season's Valencia is a soft rose-pink that is striking—disbudded and three or four blooms to a plant. Red Rover is a large bronze, especially when disbudded. Sonny Boy is probably the leader in single yellows, but Gretchen Piper is not far behind it. Red Radiant is an exceptionally bright color, and we find it sells on sight.

The outer petals on most varieties make it difficult to ship anemone-type chrysanthemums well, but there are some exceedingly choice kinds among them. They should particularly interest the retail grower, for they provide a showy variation. The Forrest Bebb exhibit of potted plants in this class at the Detroit show was a demonstration of their value for pot plant pur-

poses.

Tuxedo is an extra-large, beautiful

light rose-pink.

The Titan is scarlet crimson, with a bronze cushion. As noted at all the shows, this is another extra-large variety, but such flowers call for disbudding.

Rose Madder, another extra-large flower of a deep rose-pink, is attractive. Orchid Beauty, orchid rose-pink, with a light center, is highly attractive; do not miss it. Rio Rita is an exceptionally clear bright yellow. Purple Queen is a rich purple rose, quite dark.

Difficult indeed is it to improve on the big chrysanthemums of today. Black-cloth shading will call for special attention in producing a hard-flowered kind, not only to hold up under the summer conditions to which chrysanthemums are sometimes exposed, but to stand handling without showing the effect of it too easily. The new Baur-Steinkamp white Marketeer is a most promising commercial white. Secretary Nehrling appeals as an attractive variation in color, which is bright yellow, with some bronze red shading when grown cool. Good News is a golden yellow break from Detroit News, which means a hard flower and early; the variety is ideal for shading.

For high-class trade, and that is what we all cater to, of course, the following will be interesting and for that reason valuable. Floyd Gibbons, salmon pink with the reverse of the petals buff, makes an attractive color for the buyer looking for something different. Eva Le Gallienne is highly distinctive in color and form. The introducer describes the color as "crushed raspberry, with a brilliant tufted center of clear gold." The name, form and color will appeal to your select trade.

Twelve Best Standards.

Following is the unanimous choice of three midwest wholesalers: Yellow, Citronella, Mrs. Kidder, Marie De Petris and R. M. Calkins; white, Silver Sheen, Betsy Ross, Ambassador and Monument; pink, Pink Chief and Helen Frick, and bronze, Detroit News and Gladys Pearson.



One of our cold houses—pipe-frame construction. No ventilators, and side walls are open. Ideal growing conditions for this crop. Silver Sheen is shown. We find it an excellent early white. Some growers report Betsy Ross even better for this early crop. Stock shown was planted May 5, shading begun July 15, photographed September 12.

